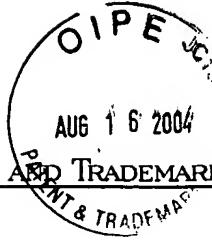


IRW



**UNITED STATES PATENT AND TRADEMARK OFFICE**



U.S. PATENT & TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/814,177	04/01/2004	Mitsutoshi Nakajima	251393US2X

22850  
 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
 1940 DUKE STREET  
 ALEXANDRIA, VA 22314

**CONFIRMATION NO. 7393**

**FORMALITIES LETTER**



\*OC000000012965098\*

Date Mailed: 06/16/2004

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

**FILED UNDER 37 CFR 1.53(b)**

*Filing Date Granted*

**Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- The application was filed in a language other than English. Applicant is required to provide an English translation of the specification and a statement that the translation is accurate. (See 37 CFR 1.52(d)).
- Because your specification was filed in a language other than English, the Office was unable to determine the number of claims submitted. Additional claim fees may be due once the number of claims can be determined.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:
  - The drawings submitted to the Office are not electronically reproducible. Drawing sheets must be submitted on paper, which is flexible, strong, white, smooth, non-shiny, and durable (see 37 CFR 1.84(e)). See Figure(s) 7-10 were too dark.

Replies should be mailed to: Mail Stop Missing Parts  
 Commissioner for Patents

P.O. Box 1450  
Alexandria VA 22313-1450

---

*A copy of this notice **MUST** be returned with the reply.*

*T-cvr*  
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



Docket No. 251393US2X

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Mitsutoshi NAKAJIMA, et al.

SERIAL NUMBER: 10/814,177

ATTN: APPLICATION BRANCH

FILING DATE: April 1, 2004

FOR: RESIN MICROCHANNEL SUBSTRATE AND METHOD OF MANUFACTURING THE SAME

**FILING OF DECLARATION UNDER 37 CFR 1.53(f)**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Responsive to the notification dated June 16, 2004, and in accordance with the provisions of 37 CFR 1.53(f),  
Applicants submit herewith a Rule 63 Declaration.

The required fee was paid at the time of filing the application.

In light of the foregoing, this application is deemed to be in proper condition for examination and such favorable  
action is earnestly solicited.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Paul Sacher

Marvin J. Spivak

Registration No.: 24,913

Customer Number

**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220

(OSMMN 05/03)

I:\USER\MICKS\251s\251393USFILING DEC.DOC

**Paul Sacher  
Registration No. 43,418**



ATTN: APPLICATION BRANCH

**THIS IS A RESPONSE TO A  
NOTICE TO FILE MISSING  
PARTS OF AN APPLICATION**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

Re: Inventor: Mitsutoshi NAKAJIMA, et al.  
Serial No: 10/814,177  
Filed: April 1, 2004  
For: RESIN MICROCHANNEL SUBSTRATE AND METHOD OF  
MANUFACTURING THE SAME

SIR:

Attached hereto for filing are the following papers:

Notice to File Missing Parts  
Filing of Declaration/Declaration  
Letter Submitting Replacement Drawing Sheet (s)/Replacement Sheets (9)  
Filing of Supplemental Application Data Sheet  
Supplemental Application Data Sheet  
Certified Translation (48 pages)  
Filing of Cerified English Translation  
Certification of English Translation

Our check in the amount of \$0.00 is attached covering any required fees. In the event that any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 CFR 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 CFR 1.136 for the necessary extension of time. A duplicate of this sheet is enclosed.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Paul Sacher  
Marvin J. Spivak

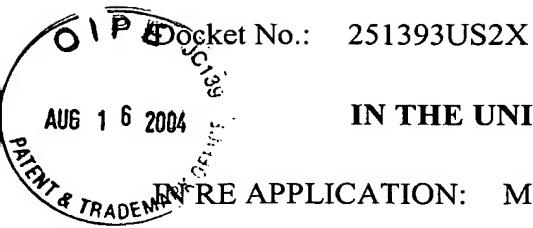
Registration No. 24,913

**Paul Sacher**  
**Registration No. 43,418**

Customer Number

**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)  
I:\USER\MIKS\251s\251393US SHT PTO CVR.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE APPLICATION: Mitsutoshi NAKAJIMA, et al.

SERIAL NO.: 10/814,177

GAU: 1765

FILED: April 1, 2004

EXAMINER:

FOR: RESIN MICROCHANNEL SUBSTRATE AND METHOD OF MANUFACTURING THE SAME

LETTER SUBMITTING REPLACEMENT DRAWING SHEET(S)

COMMISSIONER FOR PATENTS  
Alexandria, VA 22313

SIR:

Responsive to the below indicated communication, the following drawing sheets are submitted herewith:

9 Replacement Drawing Sheets       \_\_\_\_\_ New Drawing Sheets

Official Action dated \_\_\_\_\_

Notice of Allowance/Issue Fee dated \_\_\_\_\_

Other Notice to File Missing Parts dated June 16, 2004

The changes and/or modifications made include the following:

The replacement drawing sheets are submitted to meet the Patent and Trademark Office requirement.

Respectfully Submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Marvin J. Spivak  
Registration No. 24,913

Customer Number

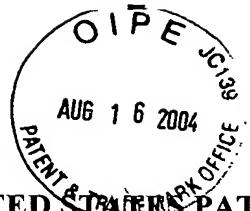
22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 06/04)

I:\USER\MICKS\251393US LTR SUB DWGS.DOC

Paul Sacher  
Registration No. 43,418

Docket No: 251393US2X



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Mitsutoshi NAKAJIMA, et al.

SERIAL NO: 10/814,177

ATTN: BOX MISSING PART

FILED: April 1, 2004

FOR: RESIN MICROCHANNEL SUBSTRATE  
AND METHOD OF MANUFACTURING  
THE SAME

**FILING OF CERTIFIED ENGLISH TRANSLATION UNDER 37 CFR 1.52(d)**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

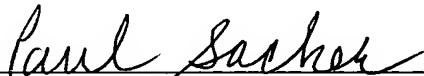
Responsive to the Notice to File Missing Parts of Application (Form PTO-1533) dated June 16, 2004, Applicants submit herewith a certified English translation of the application, as filed, in accordance with the provisions of 37 C.F.R. §1.52(d).

The required fee was paid at the time of filing of the application.

In light of the foregoing, this application is deemed to be in proper condition for examination and such favorable action is earnestly solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER &  
NEUSTADT, P.C.



Marvin J. Spivak

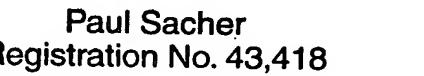
Registration No. 24,913

Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220

I:\USER\MICKS\251s\251393US ENG TRANS.DOC

  
Paul Sacher  
Registration No. 43,418